

Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: HALO COMMERCIAL

Report Number: P580634

Luminaire Tested: **HCC4S40D010MW-HM43040930-41WDWB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580634
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4S40D010MW-HM43040930-41WDWB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

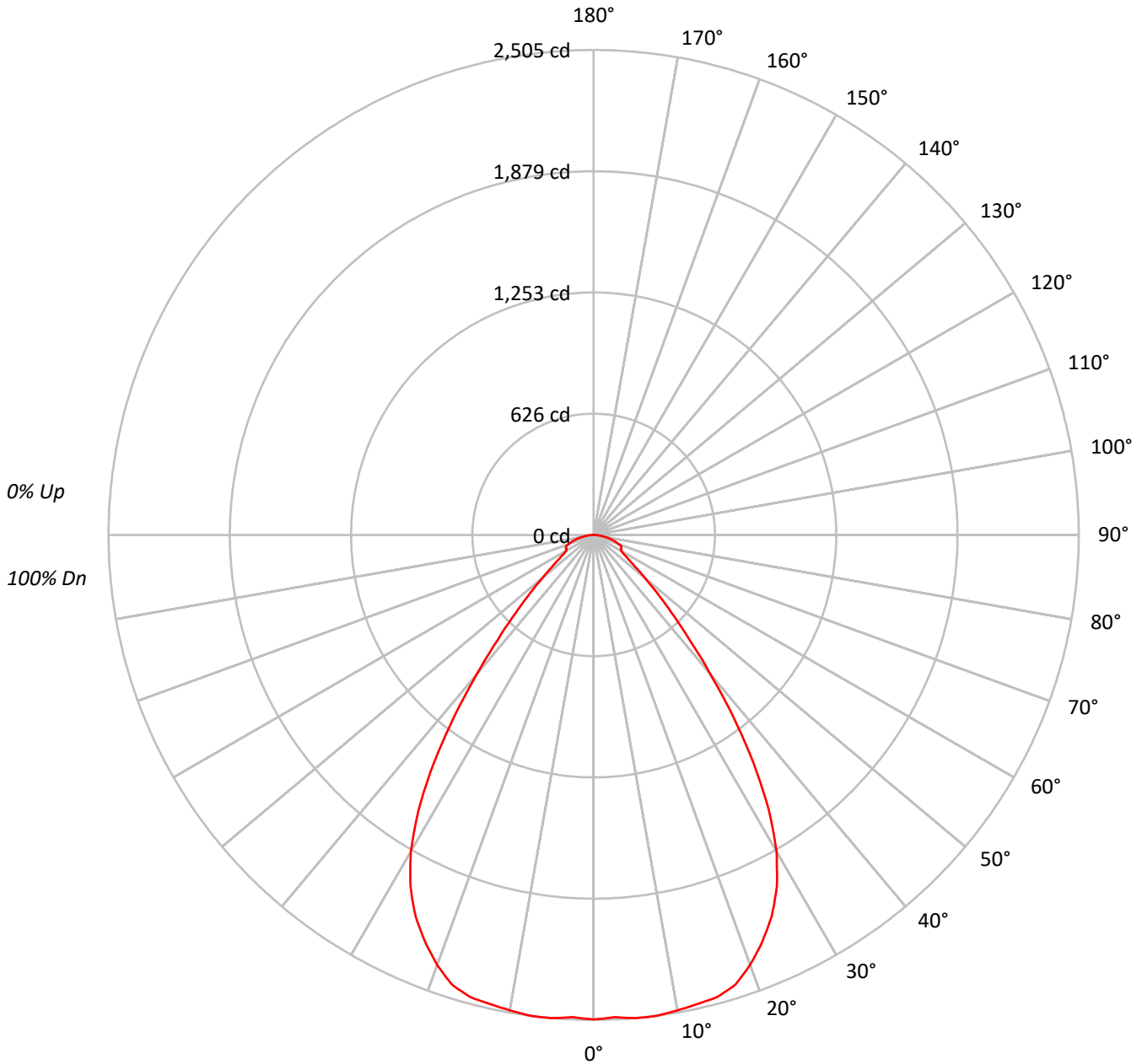
Lumens per Lamp: N/A
Luminaire Lumens: 3760.8 lumens
Efficiency: N/A
Efficacy: 91.7 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.07
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 41
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P580634
CATALOG NUMBER: HCC4S40D010MW-HM43040930-41WDWB

Luminous Intensity Polar Plot





TEST NUMBER: P580634

CATALOG NUMBER: HCC4S40D010MW-HM43040930-41WDWB

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10		0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90		
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80		
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72		
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65		
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59		
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54		
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49		
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46		
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42		
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	308759
5°	310211
10°	312345
15°	315475
20°	310211
25°	295943
30°	268888
35°	216891
40°	150486
45°	98784
50°	66183
55°	47095
60°	40235
65°	46260
70°	49588
75°	47752
80°	43045
85°	39485



TEST NUMBER: P580634
 CATALOG NUMBER: HCC4S40D010MW-HM43040930-41WDWB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.8	6.3
10°-20°	694.0	18.5
20°-30°	991.6	26.4
30°-40°	885.8	23.6
40°-50°	454.3	12.1
50°-60°	206.5	5.5
60°-70°	154.0	4.1
70°-80°	104.8	2.8
80°-90°	31.1	0.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1924.3	51.2
0°-40°	2810.1	74.7
0°-60°	3470.9	92.3
0°-90°	3760.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3760.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2503	
5°	2505	239
15°	2470	694
25°	2174	992
35°	1440	886
45°	566	454
55°	219	206
65°	158	154
75°	100	105
85°	28	31
90°	0	



TEST NUMBER: P580634
CATALOG NUMBER: HCC4S40D010MW-HM43040930-41WDWB

CANDELA DISTRIBUTION (FULL):

	0°
0°	2503.2
2.5°	2493.8
5°	2505.4
7.5°	2505.4
10°	2493.8
12.5°	2482.1
15°	2470.5
17.5°	2435.6
20°	2363.3
22.5°	2274.7
25°	2174.5
27.5°	2048.6
30°	1887.9
32.5°	1682.7
35°	1440.4
37.5°	1181.6
40°	934.6
42.5°	729.5
45°	566.3
47.5°	442.8
50°	344.9
52.5°	270.4
55°	219.0
57.5°	184.1
60°	163.1
62.5°	158.5
65°	158.5
67.5°	153.8
70°	137.5
72.5°	118.8
75°	100.2
77.5°	79.3
80°	60.6
82.5°	44.3
85°	27.9
87.5°	11.7
90°	0.0

Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



— 0°-180°

Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)